

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--------------------|------------------|---------|---------------------|
| S1 | 1 | ("6196059").PN. | US-PGPUB; USPAT | OR | OFF | 2009/03/21 18:05 |
| S2 | 3 | aastrup.in. and piezoelectric.ti. | US-PGPUB; USPAT | OR | OFF | 2009/03/21 18:08 |
| S3 | 355 | sensor with piezoelectric.ti. | US-PGPUB; USPAT | OR | ON | 2009/03/21 18:10 |
| S4 | 219 | sensor with piezoelectric.ti. and piezoelectric with electrode | US-PGPUB; USPAT | OR | ON | 2009/03/21 18:54 |
| S5 | 32 | sensor with piezoelectric.ti. and piezoelectric with electrode and channel | US-PGPUB; USPAT | OR | ON | 2009/03/21 18:54 |
| S6 | 166 | (73/1.15).OCLS. | US-PGPUB; USPAT | OR | OFF | 2009/07/23 16:23 |
| S7 | 2 | S6 and quartz with crystal | US-PGPUB; USPAT | OR | ON | 2009/07/23 16:29 |
| S8 | 1133 | piezoelectric with sensor and quartz with crystal and electrode | US-PGPUB; USPAT | OR | ON | 2009/07/23 16:29 |
| S9 | 497 | piezoelectric with sensor and quartz with crystal and electrode and (chanel flow adj cell chamber) | US-PGPUB; USPAT | OR | ON | 2009/07/23 16:30 |
| S10 | 672 | piezoelectric with sensor and quartz with crystal and electrode and (channel flow adj cell chamber) | US-PGPUB; USPAT | OR | ON | 2009/07/23 16:30 |
| S11 | 10 | piezoelectric with sensor with (card cartridge) and quartz with crystal and electrode and (channel flow adj cell chamber) | US-PGPUB; USPAT | OR | ON | 2009/07/27 12:21 |

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| S12 | 15 | piezoelectric with (card cartridge) and quartz with crystal and electrode and (channel flow adj cell chamber) | US-PGPUB; USPAT | OR | ON | 2009/07/27 12:21 |
| S13 | 369 | piezoelectric with (card cartridge) and electrode and (channel flow adj cell chamber) | US-PGPUB; USPAT | OR | ON | 2009/07/27 12:22 |
| S14 | 246028 | ((("422") or ("436") or ("73"))).CLAS. | US-PGPUB; USPAT | OR | OFF | 2009/07/27 12:22 |
| S15 | 49 | S14 and piezoelectric with (card cartridge) and electrode and (channel flow adj cell chamber) | US-PGPUB; USPAT | OR | ON | 2009/07/27 12:22 |
| S16 | 80 | piezoelectric with (card cartridge) and electrode and (microfluid\$4 capillar \$3) | US-PGPUB; USPAT | OR | ON | 2009/07/27 13:44 |
| S17 | 246028 | ((("422") or ("436") or ("73"))).CLAS. | US-PGPUB; USPAT | OR | OFF | 2009/07/27 15:00 |
| S18 | 28 | S17 and piezoelectric with (card cartridge) and electrode and (microfluid\$4 capillar \$3) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:00 |
| S19 | 507 | S17 and piezoelectric and electrode and (microfluid\$4 capillar \$3) and (measur\$4 detect\$4) with (concentration analyte) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:05 |
| S20 | 117 | S17 and piezoelectric with (quartz crystal) and electrode and (microfluid\$4 capillar \$3) and (measur\$4 detect\$4) with (concentration analyte) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:05 |

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| S21 | 1 | S17 and piezoelectric with (quartz crystal) and electrode and (microfluid\$4 capillar \$3) and (measur\$4 detect\$4) with (concentration analyte) and (piezo piezoelectric) near2 (first adj position insert\$4 mov\$3) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:07 |
| S22 | 1 | S17 and piezoelectric with (quartz crystal) and electrode and (microfluid\$4 capillar \$3) and (measur\$4 detect\$4) with (concentration analyte) and (piezo piezoelectric) near3 (first adj position insert\$4 mov\$3) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:07 |
| S23 | 21 | S17 and piezoelectric with (quartz crystal) and electrode and (microfluid\$4 capillar \$3) and (piezo piezoelectric) near3 (first adj position insert\$4 mov\$3) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:17 |
| S24 | 21 | S17 and piezoelectric with (quartz crystal) and electrode and (microfluid\$4 capillar \$3) and (piezo piezoelectric) near3 (first adj position insert\$4 mov\$3 slid\$4 retract\$4) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:19 |
| S25 | 0 | S17 and piezoelectric with (quartz crystal) and electrode and (microfluid\$4 capillar \$3) and (piezo piezoelectric) near3 (slid\$4 retract\$4) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:19 |

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| S26 | 13 | S17 and piezoelectric and electrode and (microfluid\$4 capillar \$3) and (piezo piezoelectric) near3 (slid\$4 retract\$4) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:23 |
| S27 | 8 | S17 and piezoelectric and electrode and (microfluid\$4 capillar \$3) and (piezo piezoelectric) near3 (retract\$4) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:23 |
| S28 | 9 | S17 and piezoelectric and electrode and (microfluid\$4 capillar \$3) and (piezo piezoelectric) near3 (removabl\$3 retract \$4) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:24 |
| S29 | 1 | S17 and piezoelectric and electrode and (microfluid\$4 capillar \$3) and (piezo piezoelectric) near3 (removabl\$3) | US-PGPUB; USPAT | OR | ON | 2009/07/27 15:24 |
| S30 | 31032 | shore with hardness | US-PGPUB; USPAT | OR | ON | 2009/07/31 14:48 |
| S31 | 430 | shore with hardness same o-ring | US-PGPUB; USPAT | OR | ON | 2009/07/31 14:48 |
| S32 | 197 | shore with hardness with o-ring | US-PGPUB; USPAT | OR | ON | 2009/07/31 14:48 |
| S33 | 18 | shore with hardness with o-ring and fluid adj tight | US-PGPUB; USPAT | OR | ON | 2009/07/31 14:52 |
| S34 | 5 | shore with hardness with o-ring same fluid adj tight | US-PGPUB; USPAT | OR | ON | 2009/07/31 14:53 |
| S35 | 5 | shore with hardness with (o adj ring o-ring) same fluid adj tight | US-PGPUB; USPAT | OR | ON | 2009/07/31 14:57 |
| S36 | 97 | shore with hardness with (o-ring) same seal\$3 | US-PGPUB; USPAT | OR | ON | 2009/07/31 14:59 |
| S37 | 86 | shore with hardness with (o-ring) same o-ring with seal\$3 | US-PGPUB; USPAT | OR | ON | 2009/07/31 14:59 |

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| S38 | 2 | (qcm quartz adj crystal adj microbalance) and piezoelectric with electrode with coat\$3 and channel with (liquid fluid) | US-PGPUB; USPAT | OR | ON | 2009/08/13 12:12 |
| S39 | 61 | ("3744296" "4056803" "4163384" "4399686" "4446720" "4637987" "4730478" "4735081" "5037624" "5042288" "5056355" "5065140" "5095736" "5117146" "5129262" "5138869" "5151110" "5151395" "5208162" "5221871" "5235235" "5235844" "5285677" "5320817" "5323636" "5325704" "5325705" "5339675" "5385689" "5411709" "5417821" "5445008" "5465608" "5476002" "5518528" "5573728" "5661226" "5705399" "5719324" "5795993" "5844125" "5852229" "Re35544").PN. OR ("6029500").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/13 12:13 |

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| S40 | 0 | S39 and (qcm quartz adj crystal adj microbalance) and piezoelectric with electrode with coat\$3 | US-PGPUB; USPAT | OR | ON | 2009/08/13 12:13 |
| S41 | 5 | S39 and piezoelectric with electrode with coat\$3 | US-PGPUB; USPAT | OR | ON | 2009/08/13 12:13 |
| S42 | 44 | ("2385896" "3307052" "3495105" "3727084" "4365515" "4604543" "4658650" "4728844" "5130257" "5334303" "5507178" "5616872" "5705399" "5723773" "5757104" "5789846" "5817921" "5852229" "5866798" "5869748" "5920007").PN. OR ("6196059").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/13 12:15 |
| S43 | 6 | S42 and piezoelectric with electrode with coat\$3 | US-PGPUB; USPAT | OR | ON | 2009/08/13 12:15 |
| S44 | 32 | (qcm quartz adj crystal adj microbalance) and piezoelectric with electrode and channel with (liquid fluid) | US-PGPUB; USPAT | OR | ON | 2009/08/13 12:21 |
| S45 | 91 | piezoelectric with electrode with coat\$3 and channel with (liquid fluid) | US-PGPUB; USPAT | OR | ON | 2009/08/13 12:39 |
| S46 | 13 | (qcm quartz adj crystal adj microbalance) and piezoelectric with (size length) with (mm cm) | US-PGPUB; USPAT | OR | ON | 2009/08/15 11:16 |

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| S47 | 13 | (qcm quartz adj crystal adj microbalance) and piezoelectric with (size length) with (mm) | US-PGPUB; USPAT | OR | ON | 2009/08/15 11:16 |
| S48 | 25 | (qcm quartz adj crystal adj microbalance) and piezoelectric with (mm) | US-PGPUB; USPAT | OR | ON | 2009/08/15 11:17 |
| S49 | 7 | (qcm quartz adj crystal adj microbalance) and piezoelectric with (mm) with thickness | US-PGPUB; USPAT | OR | ON | 2009/08/15 11:20 |
| S50 | 2404 | o-ring with (silicone pdms) | US-PGPUB; USPAT | OR | ON | 2009/08/15 13:49 |
| S51 | 34 | o-ring with (pdms) | US-PGPUB; USPAT | OR | ON | 2009/08/15 13:49 |
| S52 | 353 | o-ring with (polyurethane) | US-PGPUB; USPAT | OR | ON | 2009/08/15 13:49 |
| S53 | 10 | o-ring with (polyurethane) same fluid adj tight | US-PGPUB; USPAT | OR | ON | 2009/08/15 13:50 |

8/ 15/ 2009 3:43:00 PM

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